

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for partitioning large computer programs and or algorithms at least part of which is to be executed by an array of reconfigurable units such as Arithmetic Logic Units (ALUS),

comprising the steps of

defining a maximum allowable size to be mapped onto the array,

partitioning the program such that its separate parts minimize the overall execution time and providing a mapping onto the array not exceeding the maximum allowable size.

2. (Currently Amended) A device for partitioning large computer programs and or algorithms at least part of which is to be executed by an array of reconfigurable units such as Arithmetic Logic Units (ALUS),

comprising

means for defining a maximum allowable size to be mapped onto the array,

means for partitioning the program such that its separate parts minimize the overall execution time and for providing a mapping onto the array not exceeding the maximum allowable size.

3. (New) A method for partitioning at least one of large computer programs and large algorithms at least part of which is to be executed by an array of reconfigurable processing units, comprising:

defining a maximum allowable size to be mapped onto the array;

partitioning at least one of a program and an algorithm such that its separate parts

(a) minimize an overall execution time of the at least one of the program and the algorithm and (b) each does not exceed the maximum allowable size; and

mapping the separate parts onto the array.

4. (New) The method of claim 3, wherein the reconfigurable processing units are arithmetic logic units.